

Notice of Allowability

Application No.

09/596,257

Examiner

Diem K Cao

Applicant(s)

NUSBICKEL, WENDI L.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 8/9/2004.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☒ including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
 - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20040809.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

T. J. LEE
SENIOR PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Brian Buchheit (Reg. No. 52,667) on October 21-22 2004.

2. The application has been amended as follows:

Claim 1 (Currently Amended) A method for establishing a location transparent event handler comprising the steps of:

establishing a Notifier object in a client application for execution in a first process address space, said Notifier object based upon a Notifier class, said Notifier object having a list of Listener objects to be notified upon an event occurrence;

establishing a Listener object in a server application for execution in a second process address space separate from said first process address space, said Listener object based upon a Listener class, said Listener object defining a method to be called upon the occurrence of said event, said Listener object enabled to be callable from said Notifier object; and,

generating a Listener object stub for said Listener object, said Listener object stub disposed in said first process address space configured to be added to said list of Listener objects in said Notifier object, said Listener object stub further configured to call said defined method in said Listener object by utilizing a reference to the Listener object stub that is retrieved from

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~~invoking a routine in~~ a third process address space that in turn calls the defined method in said Listener object,

whereby upon said event occurrence, said Notifier object can traverse said list of Listener objects and can notify said Listener object stub of said event occurrence thereby creating a remote call to said defined method in said Listener object.

Claim 4 (Currently Amended) A method for performing location transparent event handling comprising the steps of:

creating an instance of a Notifier class in a first process address space, said Notifier instance having a list of Listener objects to be notified upon an event occurrence;

creating an instance of a Listener class in a second process address space, said Listener instance having a method to be called upon the occurrence of said event, said Listener instance enabled to be callable from said Notifier instance , wherein said Notifier instance and said Listener instance are configured to perform location transparent event handling;

inserting a Listener object stub in said list of Listener objects in said Notifier instance is said first process address space, said Listener object stub configured to call said defined method in said Listener instance by ~~invoking a routine in~~ utilizing a reference to the Listener object stub that is retrieved from a third process address space that in turn calls the defined method in said Listener instance;

receiving an event occurrence in said Notifier instance; and

responsive to receiving said event occurrence, traversing said list of Listener objects, passing said event to said Listener object stub, creating in said Listener object stub a remote call

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to said defined method in said Listener instance, and executing said defined method in said Listener instance.

Claim 9 (Currently Amended) A machine readable storage, having stored thereon a computer program having a plurality of code sections for establishing a location transparent event handler, said code sections executable by a machine for causing the machine to perform the steps of:

establishing a Notifier object in a client application for execution in a first process address space, said Notifier object based upon a Notifier class, said Notifier object having a list of Listener objects to be notified upon an event occurrence;

establishing a Listener object in a server application for execution in a second process address space separate from said first process address space, said Listener object based upon a Listener class, said Listener object defining a method to be called upon the occurrence of said event, said Listener object enabled to be callable from said Notifier object; and,

generating a Listener object stub for said Listener object, said Listener object stub disposed in said first process address space configured to be added to said list of Listener objects in said Notifier object, said Listener object stub further configured to call said defined method in said Listener object by utilizing a reference to the Listener object stub that is retrieved from ~~invoking a routine in~~ a third process address space that in turn calls the defined method in said Listener object,

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whereby upon said event occurrence, said Notifier object can traverse said list of Listener objects and can notify said Listener object stub of said event occurrence thereby creating a remote call to said defined method in said Listener object.

Claim 12 (Currently Amended) A machine readable storage, having stored thereon a computer program having a plurality of code sections for performing location transparent event handling, said code sections executable by a machine for causing the machine to perform the steps of:

creating an instance of a Notifier class in a first process address space, said Notifier instance having a list of Listener objects to be notified upon an event occurrence;

creating an instance of a Listener class in a second process address space, said Listener instance having a method to be called upon the occurrence of said event, said Listener instance enabled to be callable from said Notifier instance , wherein said Notifier instance and said Listener instance are configured to perform location transparent event handling;

inserting a Listener object stub in said list of Listener objects in said Notifier instance is said first process address space, said Listener object stub configured to call said defined method in said Listener instance by ~~invoking a routine in~~ utilizing a reference to the Listener object stub that is retrieved from a third process address space that in turn calls the defined method in said Listener instance;

receiving an event occurrence in said Notifier instance; and

responsive to receiving said event occurrence, traversing said list of Listener objects, passing said event to said Listener object stub, creating in said Listener object stub a remote call

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to said defined method in said Listener instance, and executing said defined method in said Listener instance.


3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diem K Cao whose telephone number is (703) 305-5220 or (571) 272-3760 (effective November 1st 2004). The examiner can normally be reached on Monday - Thursday, 9:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703) 305-9678 or (571) 272-3756 (effective November 1st 2004). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Diem Cao


THOMAS L.
SUPERVISOR FOR
TECHNOLOGY